


Substitute for Form 1449/PTO					Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number		10/766,087	
			Filing Date		January 27, 2004	
			First Named Inventor:		Scott Adams	
			Art Unit		2824 1763	
			Examiner Name		Culbert	
Sheet	1	of	14	Attorney Docket Number		4341P053D

U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (If known)					
RC		US-	3,493,820	2/3/1970	Rosvold		
↓		US-	4,104,086	8/1/1978	Bondur et al.		
		US-	4,421,381	12/20/1983	Ueda et al.		
		US-	4,509,249	4/9/1985	Goto et al.		
		US-	4,519,128	5/28/1985	Chesebro et al.		
		US-	4,553,436	11/19/1985	Hansson		
		US-	4,571,819	2/25/1986	Rogers et al.		
		US-	4,613,203	9/23/1986	Proetel et al.		
		US-	4,670,092	6/2/1987	Motamedi		
		US-	4,688,069	8/18/1987	Joy et al.		
		US-	4,706,374	11/17/1987	Murakami		
		US-	4,738,500	4/19/1988	Grupp et al.		
		US-	4,784,720	11/15/1988	Douglas		
	↓		US-	4,855,017	8/8/1989	Douglas	
	RC		US-	4,876,217	10/24/1989	Zdebel	

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
RC		DE	19757171 A1	7/1/1999	Bosch		
↓		DE	19800745 A1	7/15/1999	Bosch		
↓		EP	0 813 089 A2	12/17/1997	Choi et al.		
↓		EP	0 834759 A2	4/8/1998	Dhuler, et al.		
RC		EP	0 980014 A1	2/16/2000	Meier, et al.		

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RC		US-	5,068,203	11/26/1991	Logsdon et al.	
		US-	5,083,857	1/28/1992	Hornbeck	
		US-	5,097,354	3/17/1992	Goto	
		US-	5,172,262	12/15/1992	Hornbeck	
		US-	5,198,390	3/30/1993	MacDonald et al.	
		US-	5,203,208	4/20/1993	Bernstein	
		US-	5,226,321	7/13/1993	Varnham et al.	
		US-	5,235,187	8/10/1993	Arney et al.	
		US-	5,316,979	5/31/1994	MacDonald et al.	
		US-	5,345,824	9/13/1994	Sherman et al.	
		US-	5,391,236	2/21/1995	Krut et al.	
		US-	5,393,375	2/28/1995	MacDonald et al.	
		US-	5,397,904	3/14/1995	Arney et al.	
↓		US-	5,399,415	3/21/1995	Chen et al.	
RC		US-	5,426,070	6/20/1995	Shaw et al.	

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RC		EP	1 120677 A2	8/1/2001	Wood et al.		
		GB	2 175 705 A	12/3/1986	Greenwood et al.		
		GB	2 239 101 A	6/19/1991	Rowe		
↓		GB	2 275 787 A	9/7/1994	Pember		
RC		JP	60-107017	6/12/1985	Tanabe et al.		

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RC		US-	5,610,335	3/11/1997	Shaw et al.	
		US-	5,611,888	3/18/1997	Bosch et al.	
		US-	5,611,940	3/18/1997	Zettler	
		US-	5,628,917	5/13/1997	MacDonald et al.	
		US-	5,629,790	5/13/1997	Neukermans et al.	
		US-	5,637,189	6/10/1997	Peeters et al.	
		US-	5,642,015	6/24/1997	Whitehead et al.	
		US-	5,645,684	7/8/1997	Keller	
		US-	5,646,067	7/8/1997	Gaul	
		US-	5,648,618	7/15/1997	Neukermans et al.	
		US-	5,673,139	9/30/1997	Johnson	
		US-	5,682,062	10/28/1997	Gaul	
		US-	5,696,619	12/9/1997	Knipe et al.	
↓		US-	5,703,728	12/30/1997	Smith et al.	
RC		US-	5,719,073	2/17/1998	Shaw et al.	

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RC		WO	97/04283	2/6/1997	Miller et al.		
↓		WO	99/36941	7/22/1999	Adams et al.		
		WO	99/36948	7/22/1999	Adams et al.		
		WO	99/67666	12/29/1999	Laor		
RC		WO	01/33898 A2	5/10/2001	Ramaswami et al.		

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RC		US-	5,726,073	3/10/1998	Zhang et al.	
		US-	5,739,941	4/14/1998	Knipe et al.	
		US-	5,759,913	6/2/1998	Fulford, Jr. et al.	
		US-	5,770,465	6/23/1998	MacDonald et al.	
		US-	5,784,187	7/21/1998	Cunningham et al.	
		US-	5,798,557	8/25/1998	Salatino et al.	
		US-	5,804,084	9/8/1998	Nasby et al.	
		US-	5,814,889	9/29/1998	Gaul	
		US-	5,846,849	12/8/1998	Shaw et al.	
		US-	5,847,454	12/8/1998	Shaw et al.	
		US-	5,853,959	12/29/1998	Brand et al.	
		US-	5,912,094	6/15/1999	Aksyuk et al.	
		US-	5,912,608	6/15/1999	Asada	
	↓	US-	5,915,168	6/22/1999	Salatino et al.	
	RC	US-	5,920,417	7/6/1999	Johnson	

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RC		WO	01/39413 A2		5/31/2001	Ramaswami et al.		
RC		WO	01/57902 A2		8/9/2001	Adams et al.		

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RC		US-	5,933,746	8/3/1999	Begley et al.	
		US-	5,959,760	9/28/1999	Yamada et al.	
		US-	5,969,848	10/19/1999	Lee et al.	
		US-	5,973,396	10/26/1999	Farnworth	
		US-	5,998,816	12/7/1999	Nakaki et al.	
		US-	5,998,906	12/7/1999	Jerman et al.	
		US-	5,999,303	12/7/1999	Drake	
		US-	6,000,280	12/14/1999	Miller et al.	
		US-	6,020,272	2/1/2000	Fleming	
		US-	6,028,689	2/22/2000	Michalicek et al.	
		US-	6,040,935	3/21/2000	Michalicek	
		US-	6,044,705	4/4/2000	Nuekermans et al.	
		US-	6,066,265	5/23/2000	Galvin et al.	
↓		US-	6,072,617	6/6/2000	Henck	
RC		US-	6,075,639	6/13/2000	Kino et al.	

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		us-	6,097,858	8/1/2000	Laor	
		us-	6,097,859	8/1/2000	Solgaard et al.	
		us-	6,097,860	8/1/2000	Laor	
		us-	6,101,299	8/8/2000	Laor	
		us-	6,107,109	8/22/2000	Akram et al.	
		us-	6,107,115	8/22/2000	Atobe et al.	
		us-	6,121,552	9/19/2000	Brosnihan et al.	
		us-	6,128,121	10/3/2000	Choi et al.	
		us-	6,146,248	11/14/2000	Jairath et al.	
		us-	6,149,190	11/21/2000	Galvin et al.	
		us-	6,170,332 B1	1/9/2001	MacDonald et al.	
		us-	6,180,536 B1	1/30/2001	Chong et al.	
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		US-	6,220,561 B1	4/24/2001	Garcia	
		US-	6,239,473 B1	5/29/2001	Adams et al.	
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		US-	6,262,827 B1	7/17/2001	Ueda et al.	
		US-	6,285,490 B1	9/4/2001	Meier et al.	
		US-	6,295,154 B1	9/25/2001	Laor et al.	
		US-	6,300,665 B1	10/9/2001	Peeters et al.	
		US-	6,323,982 B1	11/27/2001	Hornbeck	
		US-	6,329,738 B1	12/11/2001	Hung et al.	
		US-	6,330,102 B1	12/11/2001	Daneman et al.	
		US-	6,337,760 B1	1/8/2002	Huibers et al.	
		US-	6,342,430 B1	1/29/2002	Adams et al.	
RC		US-	6,353,492 B2	3/5/2002	McClelland et al.	

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				Application Number	10/766,087	
				Filing Date	January 27, 2004	
				First Named Inventor:	Scott Adams	
				Art Unit	2834 1763	
				Examiner Name	Culbert	
Sheet	9	of	14	Attorney Docket Number	4341P053D	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
RC		US-	6,368,881 B1	4/9/2002	Brouillette et al.	
		US-	6,404,313 B2	6/11/2002	Asada	
		US-	6,444,138 B1	9/3/2002	Moon et al.	
		US-	6,458,615 B1	10/1/2002	Fedder et al.	
		US-	6,462,391 B1	10/8/2002	Chong et al.	
		US-	6,464,892 B2	10/15/2002	Moon et al.	
		US-	6,467,345 B1	10/22/2002	Neukermans et al.	
		US-	6,483,961 B1	11/19/2002	Helkey et al.	
		US-	6,538,799 B2	3/25/2003	McClelland et al.	
		US-	6,552,840 B2	4/22/2003	Knipe	
		US-	6,560,384 B1	5/6/2003	Helkey et al.	
		US-	6,563,106 B1	5/13/2003	Bowers et al.	
		US-	6,626,039 B1	9/30/2003	Adams et al.	
		US-	6,628,041 B2	9/30/2003	Lee et al.	
RC		US-	6,643,425 B1	11/4/2003	Bowers et al.	

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		US-	6,668,108 B1	12/23/2003	Helkey et al.	
		US-	6,706,200 B2	3/16/2004	Moon et al.	
		US-	6,756,247 B1	6/29/2004	Davis et al.	
		US-	US 2001/0044165 A1	11/22/2001	Lee et al.	
		US-	US 2002/0039464 A1	4/4/2002	Yoshimura et al.	
↓		US-	US-2002/0071171 A1	6/13/2002	Greywall	
RC		US-	US-2002/0093721 A1	7/18/2002	Knipe	
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				Art Unit	2894 1763
				Examiner Name	Culbert
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
RC		Timothy J. Broshnihan, James M. Bustillo, Albert P. Pisano & Roger T. Howe, "Embedded Interconnect & Electrical Isolation for High-Aspect-Ratio, SOI Inertial Instruments," Berkeley Sensor & Actuator Sensor, pp. 637-640, Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators (Chicago, June 16-19, 1997)			
		Janusz Bryzek, Kurt Petersen, & Wendell McCulley, "Micromachines on the March," IEEE Spectrum, pp. 20-31 (May 1994)			
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		<u>"Lucent's New All-Optical Router Uses Bell Labs Microscopic Mirrors," Bells Labs press release, pp. 1-4, November 10, 1999, http://www.bell-labs.com/news/1999/november/10/1.html</u>			
RC		Rudolf F. Graf, Radio Shack Dictionary of Electronics, p. 639, Definition of Varibale Capacitor with Picture (1974)			

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				Application Number	10/766,087
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				Art Unit	2834 1763
Examiner Name				Culbert	
Sheet	12	of	14	Attorney Docket Number 4341P053D	
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
RC		M. Adrian Michalick, Wenge Zhang, Kevin F. Harsh, Victor M. Bright, and Y.C. Lee, "Micromirror Arrays Fabricated by Flip-Chip Assembly," Part of the SPIE Conference on Miniaturized Systems with Micro-Optics and MEMs, Santa Clara, SPIE Vol. 3878, pp. 68-79 (September 1999)			
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		Wolfgang Hofmann, Chris S. Lee, and Noel C. MacDonald, "Monolithic Three-Dimensional Single-Crystal Silicon Microelectromechanical Systems, Sensors and Materials, Vol. 10, No. 6, pp. 337-350 (1998)			
↓		William C. Tang, Martin G. Lim, and Roger T. Howe, "Electrostatic Comb Drive Levitation and Control Method" Journal of Microelectromechanical Systems, Vol. 1, No. 4, pp. 170-178 (December 1992)			
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RC		Joseph E. Ford, Vladimir A. Aksyuk, David J. Bishop, and James A. Walker, "Wavelength Add-Drop Switching Using Tilting Micromirrors," Journal of Lightwave Technology, Vol. 17, No. 5, pp. 904-911 (May 1999)			
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		Rob Legtenberg, et al., "Comb-drive actuators for large displacements," Journal of Micromechaniss and Microengineering, Vol. 6, No. 2, pp.320-329, June 1996			
		Ronald E. Scotti et al., "The Challenges of Packaging MEMS Components for the All Optical Network of the Future," Design, Test, Integration, and Packaging of MEMS/MOEMS 2001, Volume 4408, pp. 19-27 (April 25-27, 2001)			
		Chris S.B. Lee, Sejin Han, and Noel C. MacDonald, "Single Crystal Silicon (SCS) XY-Stage Fabricated by DRIE and IR alignment," MEMS 2000: The Thirteenth Annual International Conference on Micro Electro Mechanical Systems, pp. 28-33 (January 23-27, 2000)			
		Chris S.B. Lee, Russell Y. Webb, John M. Chong, and Noel C. MacDonald, "Single Crystal Silicon (SCS) MicroMirror Arrays using Deep Silicon Etching and IR Alignment," MEMS 2000: The Thirteenth Annual International Conference on Micro Electro Mechanical Systems, pp. 441-448 (January 23-27, 2000)			
↓ RC		A. Azzam Yasseen, Joseph N. Mitchell, James F. Klemic, David A. Smith, and Mehran Mehregany, "A Rotary Electrostatic Micromotor 1 X 8 Optical Switch," IEEE Journal of Selected Topics in Quantum Electronics, Vol. 5, No. 1, pp. 26-31 (January/February 1999)			

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RC		PCT Notification of Transmittal of The International Search Report or The Declaration for PCT Counterpart Application No. PCT/US01/03760 Containing International Search Report (September 5, 2001)			
RC		PCT Notification of Transmittal of International Preliminary Examination Report for PCT Counterpart Application No. PCT/US01/03760, 5 pgs. (January 29, 2002)			

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